AUTHOR INDEX, VOLUME 49

ACHILLES, WILLIAM E. AND SOMERS H. STURGIS. The Effect of the Intrasplenic Ovarian Graft on Pituitary Gonadotropins, 720

ALEXANDER, J. D., E. D. PELLEGRINO, S. J. FARBER, AND D. P. EARLE. Observations on the Relation of Renal Function Changes to the Electrolyte and Glycosuric Effects of ACTH in Man, 136

ASHBEL, RIVKA, see SELIGMAN, ARNOLD M., 110

ASHBEL, RIVKA, RICHARD B. COHEN AND ARNOLD M. SELIGMAN. Histochemical Demonstration of Ketosteroids in Normal and Neoplastic Testes, 265.

BACCHUS, HABEEB. Effect of Ascorbic Acid, Potassium Chloride Flooding, and Cortisone on the Course of Formaldehyde-Irritation Arthritis, 789

BAKER, BURTON L., see HAYES, MARK A., 379

BAKER, ROGER AND GEORGE H. MILLER, JR. "Panendocrinectomy" and the Serum Protein in the Dog, 484

BANCROFT, R. W., E. GEIGER, AND E. B. HAGERTY. Nitrogen-sparing Effect of Carbohydrate Related to Time Factor with Hypophysectomized and Diabetic Rats, 149

BARRNETT, RUSSELL J. AND ROY O. GREEP. The Pituitary Gonadotropic Activity of Stalk-Sectioned Male Rats, 337

BELL, JOHN H., see STEPTO, ROBERT C., 755

BENNETT, DOROTHEA AND AUBREY GORBMAN. Reestablishment of Function in Transplanted Thyroid Glands of Mice, 310

BERNSTORF, E. C. Incomplete Hepatic Inactivation of Hormone Produced by the Intrasplenically Grafted Ovary in the Mouse, 302

BLACK, LILA, see RUBIN, BETTY L., 429

BLACK, W. G., see MURPHREE, R. L., 474

BLACK, W. G., G. OTTO, AND L. E. CASIDA. Embryonic Mortality in Pregnancies Induced in Rabbits of Different Reproductive Stages, 237

BOATMAN, JOSEPH B. AND CAMPBELL MOSES. The Effect of Thymus and Muscle Feeding upon Growth and Concentration of Radioiodine I^{131} in the Thyroid and Other Tissues of the Rat, 422

BOGOROCH, R. AND P. TIMIRAS. The Response of the Thyroid Gland of the Rat to Severe Stress, 548

BORELL, U. AND E. DICZFALUSY. Action of Human Chorionic Gonadotrophin Upon the Metabolism of Phosphorus in the Thymus of Hypophysectomized Immature Rats, 189

BRISTOL, WILLIAM R., see DRILL, VICTOR A., 589

BRUZZONE, S., see MARDONES, ELVIRA, 817

BURNS, JOHN F., see LEVIN, EZRA, 289

BYRNES, WILLIAM W. AND ROLAND K. MEYER. Effect of Physiological Amounts of Estrogen on the Secretion of Follicle Stimulating and Luteinizing Hormones, 449

CAMPBELL, JAMES, H. P. LEI, AND I. W. F. DAVIDSON. Production of Diabetes and Increased Erythrocyte Sedimentation Rate by Purified Growth Hormone, 635

CANTAROW, ABRAHAM, see D'ANGELO, SAVINO A., 624

CASIDA, L. E., see BLACK, W. G., 237

CASIDA, L. E., see MURPHREE, R. L., 474

CHAIKOFF, I. L., see GOLDBERG, R. S., 613

CHAIKOFF, I. L., see HUM, R. F., 21

CHRISTMAN, A. A., see FAJANS, STEFAN S., 225

CLARK, SARAH L., ROBERT B. GREENBLATT, AND ROBERT M. WEST. Inhibition of the Gametokinetic Response in Male "Rana Pipiens" with Adrenolytic Drugs, 200

AUTHOR INDEX, VOLUME 49

ACHILLES, WILLIAM E. AND SOMERS H. STURGIS. The Effect of the Intrasplenic Ovarian Graft on Pituitary Gonadotropins, 720

ALEXANDER, J. D., E. D. PELLEGRINO, S. J. FARBER, AND D. P. EARLE. Observations on the Relation of Renal Function Changes to the Electrolyte and Glycosuric Effects of ACTH in Man, 136

ASHBEL, RIVKA, see SELIGMAN, ARNOLD M., 110

ASHBEL, RIVKA, RICHARD B. COHEN AND ARNOLD M. SELIGMAN. Histochemical Demonstration of Ketosteroids in Normal and Neoplastic Testes, 265.

BACCHUS, HABEEB. Effect of Ascorbic Acid, Potassium Chloride Flooding, and Cortisone on the Course of Formaldehyde-Irritation Arthritis, 789

BAKER, BURTON L., see HAYES, MARK A., 379

BAKER, ROGER AND GEORGE H. MILLER, JR. "Panendocrinectomy" and the Serum Protein in the Dog, 484

BANCROFT, R. W., E. GEIGER, AND E. B. HAGERTY. Nitrogen-sparing Effect of Carbohydrate Related to Time Factor with Hypophysectomized and Diabetic Rats, 149

BARRNETT, RUSSELL J. AND ROY O. GREEP. The Pituitary Gonadotropic Activity of Stalk-Sectioned Male Rats, 337

BELL, JOHN H., see STEPTO, ROBERT C., 755

BENNETT, DOROTHEA AND AUBREY GORBMAN. Reestablishment of Function in Transplanted Thyroid Glands of Mice, 310

BERNSTORF, E. C. Incomplete Hepatic Inactivation of Hormone Produced by the Intrasplenically Grafted Ovary in the Mouse, 302

BLACK, LILA, see RUBIN, BETTY L., 429

BLACK, W. G., see MURPHREE, R. L., 474

BLACK, W. G., G. OTTO, AND L. E. CASIDA. Embryonic Mortality in Pregnancies Induced in Rabbits of Different Reproductive Stages, 237

BOATMAN, JOSEPH B. AND CAMPBELL MOSES. The Effect of Thymus and Muscle Feeding upon Growth and Concentration of Radioiodine I^{131} in the Thyroid and Other Tissues of the Rat, 422

BOGOROCH, R. AND P. TIMIRAS. The Response of the Thyroid Gland of the Rat to Severe Stress, 548

BORELL, U. AND E. DICZFALUSY. Action of Human Chorionic Gonadotrophin Upon the Metabolism of Phosphorus in the Thymus of Hypophysectomized Immature Rats, 189

BRISTOL, WILLIAM R., see DRILL, VICTOR A., 589

BRUZZONE, S., see MARDONES, ELVIRA, 817

BURNS, JOHN F., see LEVIN, EZRA, 289

BYRNES, WILLIAM W. AND ROLAND K. MEYER. Effect of Physiological Amounts of Estrogen on the Secretion of Follicle Stimulating and Luteinizing Hormones, 449

CAMPBELL, JAMES, H. P. LEI, AND I. W. F. DAVIDSON. Production of Diabetes and Increased Erythrocyte Sedimentation Rate by Purified Growth Hormone, 635

CANTAROW, ABRAHAM, see D'ANGELO, SAVINO A., 624

CASIDA, L. E., see BLACK, W. G., 237

CASIDA, L. E., see MURPHREE, R. L., 474

CHAIKOFF, I. L., see GOLDBERG, R. S., 613

CHAIKOFF, I. L., see HUM, R. F., 21

CHRISTMAN, A. A., see FAJANS, STEFAN S., 225

CLARK, SARAH L., ROBERT B. GREENBLATT, AND ROBERT M. WEST. Inhibition of the Gametokinetic Response in Male "Rana Pipiens" with Adrenolytic Drugs, 200

COHEN, RICHARD B., see ASHBEL, RIVKA, 265
COLLINS, V. K., see LEVIN, EZRA, 289
CONN, JEROME W., see FAJANS, STEFAN S., 225
CONSOLAZIO, C. FRANK, see STEPTO, ROBERT C., 755
CONSTANTINIDES, PARIS. An Immediate Kidney Response to Acute Stress, 512
CORNER, GEORGE W., see CSAPO, ARPAD, 349
CSAPO, ARPAD AND GEORGE W. CORNER. *In Vitro* Contracture of Pseudopregnant Uterine Muscle Contrasted with Estrous Motility, 349

DAMGAARD, EVELYN, see UNGAR, GEORGES, 805
D'ANGELO, SAVINO A., KARL E. PASCHKIS, ABRAHAM CANTAROW, ALBERT N. SIEGEL, AND J. L. RIVERO FONTAN. Hyperplasia and I^{131} Uptake of the Guinea Pig Thyroid During and After Chronic Propylthiouracil Treatment, 624
DAVIDSON, I. W. F., see CAMPBELL, JAMES, 635
DAUGHADAY, WILLIAM H., A. LEWIS FARR, AND ELLABETH HOUGHTON. Comparison of the Formaldehydogenic Lipid of Urine Before and After Glucuronidase Hydrolysis, 146
DEMPSEY, EDWARD W., see LYMAN, CHARLES P., 647
DICZFALUSY, E., see BORELL, U., 189
DIMAURO, SANDINA, see HOLLANDER, VINCENT P., 617
DOBYNS, BROWN M. AND RULON W. RAWSON. A Comparison of Exophthalmos and Tissue Changes Induced by Active and Inactivated Thyrotropic Hormone, 15
DORFMAN, ADELINE S., see RUBIN, BETTY L., 429
DORFMAN, RALPH I., see RUBIN, BETTY L., 429
DORFMAN, RALPH I., see UNGAR, FRANK, 440
DRILL, VICTOR A. AND WILLIAM R. BRISTOL. Comparison of Water and Saline Hydration on Diuretic Action of Sympathomimetic Agents, 589
DURY, ABRAHAM. The Effect of Epinephrine and Insulin on the Plasma Potassium Level, 663

EARLE, D. P., see ALEXANDER, J. D., 136
EARTLY, H., B. GRAD, AND C. P. LEBLOND. The Antagonistic Relationship Between Testosterone and Thyroxine in Maintaining the Epidermis of the Male Rat, 677
ENGEL, FRANK L., Observations on the Interrelationship Between Insulin, the Adrenal Cortex and Non-specific Stress (Cold) in Adipose Tissue Glycogen Synthesis in the Rat, 127
ENGEL, FRANK L., Further Observations on the Role of the Adrenal Cortex in the Metabolism of Amino Acids, 538
EVANS, HERBERT M., see GEMZELL, CARL A., 325
EVERETT, JOHN W., see SAWYER, CHARLES H., 162

FARBER, S. J., see ALEXANDER, J. D., 136
FARR, A. LEWIS, see DAUGHADAY, WILLIAM H., 146
FAJANS, STEFAN S., JEROME W. CONN, DORIS V. JOHNSON, AND A. A. CHRISTMAN. ACTH-Induced Changes in Purine and Carbohydrate Metabolism in Dalmatian and Mongrel Dogs, 225
FITZGERALD, PATRICK J., see SONENBERG, MARTIN, 709
FONTAN, J. L. RIVERO, see D'ANGELO, SAVINO A., 624
FORBES, THOMAS R., Systemic Levels of Plasma Progesterone During Pregnancy in Women and Monkeys, 218
FORD, DONALD H. AND WILLIAM C. YOUNG. The Role of Progesterone in the Production of Cyclic Vaginal Changes in the Female Guinea Pig, 795
FORTIER, CLAUDE. Dual Control of Adrenocorticotrophin Release, 782
FRIEDEN, EDWARD H., Experimentally Induced Changes in the Melanophore Hormone Content of the Rat Pituitary, 557
FRIEDEN, EDWARD H. AND FREDERICK L. HISAW. The Mechanism of Symphyseal Relaxation Changes in Proteins of the Guinea Symphysis during Pregnancy, 419
FRIEDMAN, CONSTANCE L., see FRIEDMAN, SYNDEY, M., 318
FRIEDMAN, SYDNEY M. AND CONSTANCE L.

FRIEDMAN. The Effect of Adrenal Cortical Extract, 11-Desoxy-17-Hydroxycorticosterone Acetate (Compound S) and 11-Dehydrocorticosterone Acetate (Compound A) on the Cardiovascular-Renal Action of Desoxycorticosterone Acetate, 318

FROST, ROBERT C. AND ROY V. TALMAGE. Fluid and Electrolyte Shifts in the Hydrated Adrenalectomized Rat, 606

FUTTERMAN, PERRY, see MIRSKY, I. ARTHUR, 73

GAEBLER, O. H., see MATHIES, JAMES C., 571

GEIGER, E., see BANCROFT, R. W., 149

GEMZELL, CARL A., DONALD C. VAN DYKE, CORNELIUS A. TOBIAS AND HERBERT M. EVANS. Increase in the Formation and Secretion of ACTH Following Adrenalectomy, 325

GRAD, B., see EARTLY, H., 677

GREENBLATT, ROBERT B., see CLARK, SARAH L., 200

GREEP, ROY O., AND RUSSELL J. BARRNETT. The Effect of Pituitary Stalk-Section on the Reproductive Organs of Female Rats, 172

GREEP, ROY O., see RUSSELL J. BARRNETT, 337

GRIESBACH, W. E., see PURVES, H. D., 652

GRIESBACH, W. E., see PURVES, H. D., 244

GRIFFITH, R. S., see HELMER, O. M., 154

GODWIN, JOHN T., see SONENBERG, MARTIN, 709

GOLDBERG, R. C. AND I. L. CHAIKOFF. Failure of the Dinitrophenol-Induced Fall in Plasma Protein-Bound Iodine to Stimulate Augmented TSH Production, 613

GOLDBERG, R. C., see HUM, R. F., 21

GOODMAN, HOWARD C., JESSIE MARMORSTON, ALVIN L. SELLERS, STEPHEN SMITH, III, AND JACK MANDERS. Endocrine Influences on Proteinuria in the Rat: Effect of Hypophysectomy, 490

GORBMAN, AUBREY, see BENNETT, DOROTHEA, 310

GORDON, ALBERT S., SAM J. PILIERO, AND DAVID LANDAU. The Relation of the Adrenal to Blood Formation in the Rat, 497

HAGERTY, E. B., see BANCROFT, R. W., 149

HAMMOND, J., JR. AND J. M. ROBSON. Local Maintenance of the Rabbit Corpus Luteum with Oestrogen, 384

HARINGTON, SIR CHARLES. Twenty-five Years of Research on the Biochemistry of the Thyroid Gland, 401

HAYES, MARK A. AND BURTON L. BAKER. The Effect of Parenterally Administered Adrenocortical Extract on the Intradermal Spreading Action of Hyaluronidase, 379

HEINBECKER, PETER, see SIMMS, ERNEST, 45

HELMER, O. M. AND R. S. GRIFFITH. Biological Activity of Steroids as Determined by Assay of Renin-Substrate (Hypertensinogen), 154

HENEAGE, P., see SOURKES, T. L., 601

HERTZ, ROY AND WM. W. TULLNER. Comparative Estrogenic and Pituitary Depressant Action of Para-Hydroxypropiophenone in the Rat, 424

HERTZ, ROY, J. A. SCHRICKER AND WM. W. TULLNER. Dietary and Dosage Factors Affecting Thyroxine Inhibition of Estrogen-Induced Lipemia in the Chick, 168

HISAW, FREDERICK L. AND JOSEPH T. VELARDO. Inhibition of Progesterone in Decidual Development by Steroid Compounds, 732

HISAW, FREDERICK L., see FRIEDEN, EDWARD H., 419

HISAW, FREDERICK L., see VELARDO, JOSEPH T., 530

HOLLANDER, VINCENT P., SANDINA DIMAURO, AND OLAF H. PEARSON. A Diffusion Method for the Estimation of Formaldehydogenic Steroid, 617

HOMEYER, P. G., see MELAMPY, R. M., 596

HOUGHTON, ELLABETH, see DAUGHADAY, WILLIAM H., 146

HUM, R. F., R C. GOLDBERG, AND I. L., CHAIKOFF. Effect of Excess Iodine upon Anterior Pituitary Cytology of the Completely Thyroidectomized Rat and Its Bearing on the Question of Extrathyroidal Thyroxine Synthesis, 21

HUMMEL, FRED P., see UNGAR, GEORGES, 805

INGLE, DWIGHT J., ROBERT C. MEEKS,

AND KATHRYN E. THOMAS. The Effect of Fractures upon Urinary Electrolytes in Non-Adrenalectomized Rats and in Adrenalectomized Rats Treated with Adrenal Cortex Extract, 703

INGLESIAS, R., see MARDONES, ELVIRA, 817

JAILER, JOSEPH W. Adrenocorticotropin Content of the Immature Rat Pituitary Gland, 826

JOHNSON, DORIS V., see FAJANS, STEFAN, 225

KESTON, ALBERT S., see SONENBERG, MARTIN, 709

KOMRAD, EUGENE L. AND LELAND C. WYMAN. Histamine Tolerance in Rats with Intramuscular Adrenocortical Transplants, 481

LANDAU, DAVID, see GORDON, ALBERT S., 497

LEBLOND, C. P., see EARTLY, H., 677

LEI, H. P., see CAMPBELL, JAMES, 635

LEVIN, EZRA, JOHN F. BURNS, AND V. K. COLLINS. Estrogenic, Androgenic and Gonadotropic Activity in Wheat Germ Oil, 289

LI, CHOH HAO, see ULRICH, FRANK, 213

LIPSCHUTZ, A., see MARDONES, ELVIRA, 817

LYMAN, CHARLES P. AND EDWARD W. DEMPSEY. The Effect of Testosterone on the Seminal Vesicles of Castrated, Hibernating Hamsters, 647

LYNCH, KENNETH M., JR. AND WILLIAM W. SCOTT. Lipid Distribution in the Sertoli Cell and Leydig Cell of the Rat Testis as Related to Experimental Alterations of the Pituitary-Gonad System, 8

MADDEN, ROBERT J. AND HELEN H. RAMSBURG. Gastric Secretion in the Adrenalectomized Rat, 82

MANDERS, JACK, see GOODMAN, HOWARD C., 490

MANY, ANNE S., see SEGALOFF, ALBERT, 390

MARDONES, ELVIRA, S. BRUZZONE, R. IGLESIAS, AND A. LIPSCHUTZ. The Non-Concomitancy of the Progestational and Antiluteinizing Actions of Steroids, 817

MARKEE, J. E., see SAYER, CHARLES H., 162

MARMORSTON, JESSIE, see GOODMAN, HOWARD C., 490

MATHIES, JAMES C., LUCILLE PALM, AND O. H. GAEBLER. Effects of Hypophysectomy, Growth Hormone, Thyroxin and Food Intake on Cathepsin Activity of Rat Tissues, 571

MEEKS, ROBERT C., see INGLE, DWIGHT J., 703

MELAMPY, R. M., P. G. HOMEYER, AND J. C. PORTER. Fructose and Volume Relationships of Bovine Semen, 596

MEYER, ROLAND K., see BYRNES, WILLIAM W., 449

MEYER, ROLAND K., see TALBERT, GEORGE B., 687

MEYER, ROLAND K., see TALBERT, GEORGE B., 695

MCSHAN, W. H., see TALBERT, GEORGE B., 687

MCSHAN, W. H., see TALBERT, GEORGE B., 695

MILLER, GEORGE H., JR., see BAKER, ROGER, 484

MIRSKY, I. ARTHUR, PERRY FUTTERMAN, JOHN WACHMAN, AND GLADYS PERISUTTI. The Influence of Pancreatectomy on the Metabolic State of the Alloxan-Diabetic Dog, 73

MONEY, WILLIAM L., see SONENBERG, MARTIN, 709

MOSES, CAMPBELL, see BOATMAN, JOSEPH B., 422

MURPHREE, R. L., W. G. BLACK, G. OTTO, AND L. E. CASIDA. Effect of Site of Insemination upon the Fertility of Gonadotropin-Treated Rabbits of Different Reproductive Stages, 474

NISHIKAWARA, MARGARET T. The Effect of the Ingestion of a Hypolipotropic Diet on the Plasma Pseudocholinesterase Activity of Spayed Female Rats, 674

NOBLE, R. L., see PLUNKETT, E. R., 1

OTTO, G., see BLACK, W. G., 237

OTTO, G., see MURPHREE, R. L., 474

PALM, LUCILLE, see MATHIES, JAMES C., 571
PASCHKIS, KARL E., see D'ANGELO, SAVINO A., 624
PATTON, HARRY D., see TANG, PEI CHIN, 86
PEARSON, OLAF H., see HOLLANDER, VINCENT P., 617
PELLEGRINO, E. D., see ALEXANDER, J. D., 136
PERISUTTI, GLADYS, see MIRSKY, I. ARTHUR, 73
PERRY, WILLIAM F. The Action of Cortisone and ACTH on Thyroid Function, 284
PILIERO, SAM J., see GORDON, ALBERT S., 497
PIRANI, CONTAD L., see STEPTO, ROBERT C., 755
PFEIFFENBERGER, MATHER, see SIMMS, ERNEST, 45
PLUNKETT, E. R. AND R. L. NOBLE. The Effects of Injection of Lithospermum Ruderale on the Endocrine Organs of the Rat, 1
PORTER, J, C., see MELAMPY, R. M., 596
PRICE, DOROTHY. A Study of the Rat Ventral Prostate Gland in Tissue Culture, 672
PURVES, H. D. AND W. E. GRIESBACH. The Site of Thyrotrophin and Gonadotrophin Production in the Rat Pituitary Studied by McManus-Hotchkiss Staining for Glycoprotein, 244
PURVES, H. D. AND W. E. GRIESBACH. Specific Staining of the Thyrotrophic Cells of the Rat Pituitary by the Gomori Stain, 427
PURVES, H. D. AND W. E. GRIESBACH. The Significance of the Gomori Staining of the Basophils of the Rat Pituitary, 652

RABINOVICI, NATHAN. The Effect of Stress Upon the Ketosteroid and Non-Carbonyl Lipoid Content of the Adrenal Cortex of the Rat, 579
RAMSBURG, HELEN H., see MADDEN, ROBERT, 82
RAWSON, RULON W., see DOBYNS, BROWN M., 15
REINHARDT, WILLIAM O., see ULRICH, FRANK, 213
ROBSON, J. M., see HAMMOND, J., JR., 384
RUBIN, BETTY L., ADELINE S. DORFMAN, LILA BLACK, AND RALPH I. DORFMAN. Bioassay of Estrogens Using the Mouse Uterine Response, 429
RUSH, BENJAMIN AND B. L. TRUSCOTT. The Influence of Age, Strain, Castration and Estrogens upon Hepatic Stores of Vitamin A in the Mouse, 461
RUSSELL, JANE A., The Effect of Purified Growth Hormone on Urea Formation in Nephrectomized Rats, 99
RUSSELL, J. BARRNETT, see GREEP, ROY O., 172

SAUNDERS, FRANCIS J. Studies on the Role of the Adrenal in Anaphylaxis and Histamine-Shock, 185
SAWYER, CHARLES H., J. E. MARKEE, AND JOHN W. EVERETT. Failure of Nerve-Blocking Agents to Prevent the Effects of Placental Gonadotrophins in the Rabbit, 162
SCHRICKER, J. A., see HERTZ, ROY, 168
SCOTT, WILLIAM W., see LYNCH, KENNETH M., JR., 8
SCOW, R. O., see WOLLMAN, S. H., 105
SCOW, ROBERT O. Development of Obesity in Force Fed Young Thyroidectomized Rats, 522
SCOW, ROBERT O. Effect of Growth Hormone on Muscle and Skin Collagen in Neonatal Thyroidectomized Rats, 641
SEGALOFF, ALBERT AND ANNE S. MANY. The Role of Adrenal Steroids and ACTH in Gluconeogenesis. A Study in Phloridzinized Animals, 390
SELIGMAN, ARNOLD M. AND RIVKA ASHBEL. Histochemical Demonstration of Ketosteroids in Virilizing Tumors of the Adrenal Cortex, 110
SELIGMAN, ARNOLD M., see ASHBEL, RIVKA, 265
SELLERS, ALVIN L., see GOODMAN, HOWARD C., 490
SELLERS, E. A., see YOU, ROSEMARY, 374
SELYE, HANS. Prevention by Somatotrophin of the Catabolism which Normally Occurs During Stress, 197
SETHRE, ARTHUR E. AND L. J. WELLS. Accelerated Growth of the Thyroid in Normal and "Hypophysectomized" Fetal Rats Given Thyrotropin, 369
SIEGEL, ALBERT N., see D'ANGELO, SAVINO A., 624

SIMMS, ERNEST, MATHER PFEIFFENBERGER, AND PETER HEINBECKER. Neuroendocrine and Endocrine Influences on the Circulating Blood Elements, 45

SMITH, ELIZABETH W. Seasonal Response of Follicles in the Ovaries of the Bat *Myotis Grisescens* to Pregnancy Urine Gonadotrophin, 67

SMITH, O. WATKINS AND RAYMOND E. VANDERLINDE. Oxidation Product of Stilbestrol. Effects Upon the Rat Putitary of a Non-Estrogen Oxidation Product of Diethylstilbestrol, 742

SMITH, STEPHEN, III, see GOODMAN, HOWARD C., 490

SNYDER, JULIAN H. AND LELAND C. WYMAN. Gonadal Influences on Survival After Adrenalectomy in the Golden Hamster, 205

SOMOGYI, MICHAEL. Mechanism of Epinephrine-Hyperglycemia, 774

SONENBERG, MARTIN, WILLIAM L. MONEY, ALBERT S. KESTON, PATRICK J. FITZGERALD, AND JOHN T. GODWIN. Localization of Radioactivity after Administration of Labeled Prolactin Preparations to the Female Rat, 709

SOURKES, T. L. AND P. HENEAGE. The Effects of Cortisone *in vivo* on the Oxidative Metabolism of the Rat Adrenal, 601

STEBBINS, ROBERT B. Cytochemical Changes in the Adrenal Cortex of the Rat in Pyridoxine Deficiency, 25

STEBBINS, ROBERT B. Failure of Cortisone to Reduce Adrenal Weight in Hypophysectomized Rats, 671

STECHER, ROBERT M., see UNGAR, FRANK, 440

STEPTO, ROBERT C., CONRAD L. PIRANI, C. FRANK CONSOLAZIO, AND JOHN H. BELL. Ascorbic Acid Intake and the Adrenal Cortex, 755

STIMMEL, BENJAMIN F. The Effect of Zinc-Hydrochloric Acid Hydrolysis on the Neutral Ketosteroids in Human Urine, 145

STURGIS, SOMERS H., see ACHILLES, WILLIAM E., 720

STURKIE, PAUL D. Effects of Estrogen and Thyroxine Upon Plasma Proteins and Blood Volume in the Fowl, 565

SULMAN, FELIX GAD. Function of the Adrenal Gland in Sperm Ejaculation by Male Frogs, 282

SULMAN, FELIX, see ZONDEK, BERNHARD, 417

TALBERT, GEORGE B., ROLAND K. MEYER, AND W. H. MCSHAN. Effect of Hypophysectony at the Beginning of Proestrus on Maturing Follicles in the Ovary of the Rat, 687

TALBERT, GEORGE B., ROLAND K. MEYER, AND W. H. MCSHAN. Effect of Hypophysectomy Early in Proestrus on the Viability of Ova in Maturing Follicles, 695

TALMAGE, ROY V., see FROST, ROBERT C., 606

TANG, PEI CHIN AND HARRY D. PATTON. Effect of Hypophysial Stalk Section on Adenohypophysial Function, 86

TIMIRAS, P., see BOGOROCH, R., 548

THOMAS, KATHRYN E., see INGLE, DWIGHT J., 703

TOBIAS, CORNELIUS A., see GEMZELL, CARL A., 325

TRUSCOTT, B. L., see RUSH. BENJAMIN, 461

TULLNER, WM. W., see HERTZ, ROY, 168

TULLNER, WM. W., see HERTZ, ROY, 424

ULRICH, FRANK, WILLIAM O. REINHARDT, AND CHOH HAO LI. The Effects of Hypophyseal Growth Hormone on the Metabolism of Ca^{45} in Hypophysectomized Rats, 213

UNGAR, FRANK, RALPH I. DORFMAN, ROBERT M. STECHER, PAUL J. VIGNOS, JR. Metabolism of the Steroid Hormones, Metabolism of Progesterone and Related Steroids, 440

UNGAR, GEORGES, EVELYN DAMGAARD, AND FRED P. HUMMEL. The Fibrinolysin-Antifibrinolysin System in Serum: Mechanism of its Endocrine Control, 805

VAN DYKE, DONALD C., see GEMZELL, CARL A., 325

VANDERLINDE, RAYMOND E., see SMITH O. WATKINS, 742

VELARDO, JOSEPH T. AND FREDERICK L. HISAW. Quantitative Inhibition of Progesterone by Estrogens in Development of Deciduomata, 530

VELARDO, JOSEPH T., see HISAW, FREDERICK L., 732
VIGNOS, PAUL J., JR., see UNGAR, FRANK, 440

WACHMAN, JOHN, see MIRSKY, I. ARTHUR, 73
WELLS, L. J., see SETHRE, ARTHUR E., 369
WEST, CHARLES D. The Metabolism of Intravenous Testosterone by Experimental Animals, 467
WEST, ROBERT M., see CLARK, SARAH L., 200
WEXLER, BERNARD C. Effect of a Single Injection of Diethylstilbestrol on the Adrenal Cortex in the Golden Hamster, 36
WOLLMAN, S. H. AND R. O. SCOW. Effect of Hypophysectomy and Adrenalectomy on Succinoxidase Activity in the Livers of Alloxan Diabetic Rats, 105
WYMAN, LELAND C., see KOMRAD, EUGENE L., 481
WYMAN, LELAND C., see SNYDER, JULIAN G., 205

YOU, ROSEMARY W. AND E. A. SELLERS. Increased Oxygen Consumption, and Succinoxidase Activity of Liver Tissue after Exposure of Rats to Cold, 374
YOUNG, WILLIAM C., see FORD, DONALD H., 795

ZONDEK, BERNHARD AND FELIX SULMAN. Estrogenic Activity of Estriol in Different Vehicles and Different Animals, 417

SUBJECT INDEX, VOLUME 49

Adrenal
in pyridoxine deficiency, 25
effect of estrogens upon, 36
and blood elements, 45
and gastric secretion, 82
and pituitary stalk section, 86
and liver succinoxidase, 105
histochemistry of tumors, 110
and glycogen synthesis, 127
and anaphylaxis, 185
and survival of hamster, 205
and sperm ejaculation, 282
and thyroid, 284
and renal activity, 318
and adrenotrophic hormone, 325
and hyaluronidase action, 379
and gluconeogenesis, 390
and histamine tolerance, 481
and blood formation, 497
and amino acids, 538
lipid and stress, 579
and oxidative metabolism of adrenal, 601
and blood potassium, 663
effect of cortisone on, 671
and stress, 703
and ascorbic acid, 755
epinephrine hyperglycemia, 774
and arthritis, 789
Adrenocorticotrophic hormone
and renal function in man, 136
and metabolism, 225
effect on thyroid, 284
and adrenal, 325
and gluconeogenesis, 390
mechanism of release, 782
content in pituitary gland, 826
Alloxan
diabetes after pancreatectomy, 73
Androgens
of wheat germ oil, 289
metabolism of, 467
effect during hibernation, 647
effect on skin, 677
Antithyroid drugs
and iodine uptake of thyroid, 624
Blood
endocrine influence on circulating elements, 45
and "panendocrinectomy," 484
formation and adrenal, 497
effects of thyroid and estrogens upon, 565
and growth hormone in diabetes, 635
potassium and pancreas, 663
Chorionic gonadotrophin
effect on bat ovary, 67
effect after nerve-blocking agents, 162
and thymus, 189
activity of wheat germ oil, 289
Collagen
effect of growth hormone and thyroid on, 641
Diet
and estrogen induced lipemia, 168
Diuresis
mechanism of, 589
and adrenalectomy, 606
Estrogens
effect on adrenal cortex, 36
in wheat germ oil, 289
hepatic inactivation of, 302
effect on corpus luteum, 384
activity of, 417
and pituitary depression, 424
assay of, 429
metabolism of, 440
and pituitary gonadotrophins, 449
and hepatic Vitamin A, 461
and deciduomata, 530
effects on blood, 565
and pituitary inhibition, 742
Enzymes
succinoxidase and endocrine glands, 105
liver succinoxidase and stress, 374
hyaluronidase action on skin, 379
cathepsin activity and hormones, 571
blood cholinesterase and ovariectomy, 674
endocrines and blood enzymes, 805

Growth hormone
and urea formation, 99
and stress, 197
and calcium metabolism, 213
and cathepsin activity in tissues, 571
and blood in diabetes, 635
effect on muscle and skin collagen, 641

Hibernation
change in organ sensitivity during, 647
Histochemistry
of testis, 8
of adrenal cortex, 25
of adrenal cortical tumors, 110
of pituitary gland, 244
of ketosteroids in testis, 265
of thyroid, 427
of adrenal in stress, 579
of pituitary with Gomori stain, 652

Iodine
and extrathyroidal synthesis, 21
and thyroid, 422
and metabolism, 613

Ketosteroids
of adrenal cortex, 110
hydrolysis of, 145
and formaldehydrogenic lipid of urine, 146
of adrenal and stress, 579
method for, 617
Kidney
urea formation and growth hormone, 99
and adrenocorticotrophic hormone, 136
hypertensinogen and steroids, 154
and adrenal steroids, 318
and stress, 512

Lactogenic hormone
localization of, 709
Lithospermum
effect on endocrine organs, 1
Liver
succinoxidase and endocrine glands, 105
and inactivation of estrogens, 302
succinoxidase and stress, 374
Vitamin A and sex, 461

Male accessory apparatus
effect of androgens during hibernation, 647
tissue culture of. 672

Melanophore hormone
experimental changes in, 557

Neuroendocrine system
and circulating blood elements, 45
and release of adrenotrophin, 782

Ovary
seasonal response to gonadotrophins, 67
and survival after adrenalectomy, 205
and hepatic inactivation of estrogen, 302
estrogen effect on corpus luteum, 384
and cholinesterase, 674
and pituitary, 687
and pituitary gonadotrophins, 720

Pancreas
and alloxan-diabetes, 73
and glycogen synthesis, 127
and growth hormone, 635
and plasma potassium, 663
Pituitary
effect on testicular lipids, 8
and exopthalmos, 15
and synthesis of thyroxine, 21
and blood elements, 45
stalk section and adrenal, 86
and liver succinoxidase, 105
and metabolism, 149
stalk section and reproductive organs, 172
and thymus, 189
and calcium metabolism, 213
localization of thyrotrophin and gonadotrophin in, 244
and gonadotrophins, 337
depression by estrogens, 424
and proteinuria, 490
melanophore hormone of, 557
and cathepsin activity of tissues, 571
localization of hormones, 652
and effect of cortisone on adrenal, 671
and ovary, 687
and viability of ova, 695
inhibition by estrogens, 742
adrenotropin content of, 826
Pituitary gonadotrophin
localization in pituitary, 244
after pituitary stalk section, 337
and estrogens, 449
and ovary, 720
Pregnancy
and plasma progesterone, 218
embryonic mortality in, 237

and relaxation of symphysis pubis, 419
effect of insemination procedures on fertility, 474
influenced by hypophysectomy, 695
effects of progesterone, 817

Reproductive cycle
Effect of lithospermum on, 1
seasonal activity of bat ovary, 67
and pituitary stalk section, 172
and uterine motility, 349
progesterone and vaginal changes, 795

Semen
fructose content of, 596
Shock
and adrenals, 185
Skin
collagen after androgens and growth hormone, 641
effect of thyroid and androgens on, 677
Stomach
gastric secretion after adrenalectomy, 82
Stress
and glycogen synthesis, 127
and growth hormone, 197
and liver succinoxidase, 374
and kidney response, 512
and thyroid, 548
and adrenal lipids, 579
and adrenal, 703
Testis
lipid altered by experimental changes, 8
effect of adrenolytic drugs upon, 200
and survival after adrenalectomy, 205
histochemistry of ketosteroids in, 265
relation to hibernation, 647
Thymus
effect of gonadotrophin on phosphorus of, 189
and thyroid, 422
Thyroid
and exophthalmos, 15
and iodide, 21
effect on estrogen induced lipemia. 168
effect of adrenal upon, 284
function after transplantation, 310
and thyrotrophin, 369
review, 401
and radioiodine, 422
and obesity, 522
and stress, 548
and blood, 565
and cathepsin activity of tissues, 571
iodine uptake and propylthiouracil, 624
effect on muscle and skin collagen, 641
and skin, 677
Thyrotrophic hormone
localization in pituitary, 244
and thyroid, 369
localization in pituitary, 427
and dinitrophenol, 613

Uterus
contractility of, 349
and estrogen assay, 429
deciduomata formation and estrogens 530
deciduomata and steroids, 732

Vitamins
pyridoxine and adrenal cortex, 25
hepatic Vitamin A and sex, 461
ascorbic acid and adrenal, 755
ascorbic acid and arthritis, 789

Wheat germ oil
endocrine activity of, 289